ESTIMATE FOR THE WORK OF PROVIDING AND LAYING 300MM DIA RCC LINE IN PLACE OF FULLY DAMAGED 150MM DIA SW LINE AT 3RD A CROSS ROAD, SHARAVATHI ROAD, 16TH B CROSS ROAD (WHITE TOPPING ROAD)YELAHANKA COMING UNDER YELAHANKA NEWTOWN S/Stn OF AEE N-2 SUB DIVISION

Sl.No.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
1	Cutting road surface forpipe line trenches and disposing off the excavated stuff as directed including barricading, danger lighting etc., in the following classification									
	(2) Cutting Asphalt road(SR:2017-18,P.56,SLNO.16.2CODE(A105B)									
	NMH 1 toNMH 2	1	33.00	0.90	0.10	2.97				
	NMH 2 to NMH 3	1	33.10	0.90	0.10	2.98				
	NMH 3 to NMH 4	1	35.50	0.90	0.10	3.20				
	NMH 4 to NMH 5	1	30.80	0.90	0.10	2.77				
	NMH 5 to NMH 6	1	42.30	0.90	0.10	3.81				
	NMH 6 to NMH 7	1	44.30	0.90	0.10	3.99				
	NMH 8 to NMH 9	1	34.50	0.90	0.10	3.11				
	NMH 9 to NMH 10	1	23.20	0.90	0.10	2.09				
	NMH 10 to NMH 11	1	30.80	0.90	0.10	2.77				
	NMH 11 toNMH 12	1	29.80	0.90	0.10	2.68				
	NMH 12 to NMH 13	1	23.70	0.90	0.10	2.13				
	NMH 13 to NMH14	1	25.80	0.90	0.10	2.32				
	NMH 14 to NMH 15	1	27.20	0.90	0.10	2.45				
	NMH15 to NMH16	1	26.70	0.90	0.10	2.40				
	NMH 16 to NMH17	1	27.70	0.90	0.10	2.49				
	NMH17 to NMH18	1	28.00	0.90	0.10	2.52				
	NMH19 to NMH20	1	40.00	0.90	0.10	3.60				
	NMH20 to NMH21	1	28.20	0.90	0.10	2.54				
	NMH21 to NMH22	1	25.20	0.90	0.10	2.27				
	NMH22 to NMH23	1	29.70	0.90	0.10	2.67				
	EXMH23 toNMH 24	1	24.60	0.90	0.10	2.21				
	NMH 24 to NMH 25	1	28.50	0.90	0.10	2.57				
	NMH 25 to NMH 26	1	28.60	0.90	0.10	2.57				
	NMH 26 to NMH 27	1	28.90	0.90	0.10	2.60				
	NMH26 to NMH 28	1	29.90	0.90	0.10	2.69				
	NMH 28 to NMH 29	1	27.70	0.90	0.10	2.49				
	NMH 29 to NMH 30	1	30.10	0.90	0.10	2.71				
	NMH 30 to NMH 31	1	30.50	0.90	0.10	2.75				
	NMH 31 to NMH 32	1	26.60	0.90	0.10	2.39				
	NMH 32 to NMH 33	1	61.60	0.90	0.10	5.54				
	NMH 34 to NMH 35	1	11.00	0.90	0.10	0.99				
	NMH 35 to NMH36	1	24.10	0.90	0.10	2.17				
	NMH 36 to NMH 37	1	21.90	0.90	0.10	1.97				
	NMH 37 to NMH 38	1	32.10	0.90	0.10	2.89				
	NMH38 to NMH39	1	25.30	0.90	0.10	2.28				
	NMH 39 to NMH40	1	30.70	0.90	0.10	2.76				
	NMH41 to NMH 42	1	20.00	0.90	0.10	1.80				
	NMH42 to NMH 43	1	27.40	0.90	0.10	2.47				
	NMH43 to NMH44	1	23.20	0.90	0.10	2.09				
	NMH44 to NMH45	1	23.60	0.90	0.10	2.12				
	NMH 45 toNMH 46	1	28.50	0.90	0.10	2.57				
	NMH 46 to NMH 47	1	26.10	0.90	0.10	2.35				
	NMH 47 to NMH 48	1	17.30	0.90	0.10	1.56				
	Deduction for MH's	-43	2.18	0.90	0.10	-8.39				
						103.86	Cum	103.86	894.00	92847.62

(1247.7m)

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Sl.No.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
2	Earth work excavation for pipeline trenches required width by mechanical /& manual means incl dressing sides, ramming of bottoms, providing baricasing.danger lighting .shoring, strutting, dewatering, etc, directed in the following strata.									
	1) In all kinds of soils mixed with boulders of 30 cms size up if any shoring and strutting will be paid separately.									
A	(1) **0 to 2 Mtr. Depth** (SR:2017-18,P.51,SLNO.1.1CODE(A050A)									
	NMH 1 toNMH 2	1	33.00	0.90	1.65	49.01				
	NMH 2 to NMH 3	1	33.10	0.90	1.50	44.69				
	NMH 3 to NMH 4	1	35.50	0.90	1.50	47.93				
	NMH 4 to NMH 5	1	30.80	0.90	1.60	44.35				
	NMH 5 to NMH 6	1	42.30	0.90	1.70	64.72				
	NMH 6 to NMH 7	1	44.30	0.90	1.65	65.79				
	NMH 8 to NMH 9	1	34.50	0.90	1.30	40.37				
	NMH 9 to NMH 10	1	23.20	0.90	1.30	27.14				
	NMH 10 to NMH 11	1	30.80	0.90	1.35	37.42				
	NMH 11 toNMH 12	1	29.80	0.90	1.40	37.55				
	NMH 12 to NMH 13	1	23.70	0.90	1.45	30.93				
	NMH 13 to NMH14	1	25.80	0.90	1.50	34.83				
	NMH 14 to NMH 15	1	27.20	0.90	1.50	36.72				
	NMH15 to NMH16	1	26.70	0.90	1.55	37.25				
	NMH 16 to NMH17	1	27.70	0.90	1.60	39.89				
	NMH17 to NMH18	1	28.00	0.90	1.65	41.58				
	NMH19 to NMH20	1	40.00	0.90	1.65	59.40				
	NMH20 to NMH21	1	28.20	0.90	1.70	43.15				
	NMH21 to NMH22	1	25.20	0.90	1.85	41.96				
	NMH22 to NMH23	1	29.70	0.90	2.00	53.46				
	EXMH23 toNMH 24	1	24.60	0.90	2.00	44.28				
	NMH 24 to NMH 25	1	28.50	0.90	2.00	51.30				
	NMH 25 to NMH 26	1	28.60	0.90	2.00	51.48				
	NMH 26 to NMH 27	1	28.90	0.90	2.00	52.02				
	NMH26 to NMH 28	1	29.90	0.90	2.00	53.82				
	NMH 28 to NMH 29	1	27.70	0.90	2.00	49.86				
	NMH 29 to NMH 30	1	30.10	0.90	2.00	54.18				
	NMH 30 to NMH 31	1	30.50	0.90	2.00	54.90				
	NMH 31 to NMH 32	1	26.60	0.90	2.00	47.88				
	NMH 32 to NMH 33	1	61.60	0.90	2.00	110.88				
	NMH 34 to NMH 35	1	11.00	0.90	2.00	19.80				
	NMH 35 to NMH36	1	24.10	0.90	1.95	42.30				
	NMH 36 to NMH 37	1	21.90	0.90	1.75	50.56				
	NMH 37 to NMH 38	1	32.10	0.90	1.70	38.71				
	NMH38 to NMH39	1	25.30	0.90	1.60	44.21				
	NMH 39 to NMH40	1	30.70	0.90	1.45	40.06				
	NMH41 to NMH 42	1	20.00	0.90	1.55	27.90				
	NMH42 to NMH 43	1	27.40	0.90	1.65	40.69				
	NMH43 to NMH44	1	23.20	0.90	1.65	34.45				
	NMH44 to NMH45	1	23.60	0.90	1.50	31.86				
	NMH 45 toNMH 46	1	28.50	0.90	1.50	38.48				
	NMH 46 to NMH 47	1	26.10	0.90	1.50	35.24				
	NMH 47 to NMH 48	1	17.30	0.90	1.50	23.36				
			(1242.7m)			1916.31				
	Deduction for MH's	-43	2.18	0.90	1.69	-142.58				
	As per SL No 1(Asphalt cutting Cutting)					-103.86				
						1669.87	Cum	1669.87	167.00	**278868.63**
B	(1) **2 to 4 Mtr. Depth** (SR:2017-18,P.51,SLNO.1.2CODE(A050B)									
	NMH22 to NMH23	1	29.70	0.90	0.05	1.34				
	EXMH23 toNMH 24	1	24.60	0.90	0.25	5.54				

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Sl.No.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
	NMH 24 to NMH 25	1	28.50	0.90	0.50	12.83				
	NMH 25 to NMH 26	1	28.60	0.90	0.60	5.44				
	NMH 26 to NMH 27	1	28.90	0.90	0.50	3.01				
	NMH26 to NMH 28	1	29.90	0.90	0.25	6.73				
	NMH 28 to NMH 29	1	27.70	0.90	0.10	2.49				
	NMH 29 to NMH 30	1	30.10	0.90	0.05	1.35				
	NMH 31 to NMH 32	1	26.60	0.90	0.05	1.20				
	NMH 32 to NMH 33	1	61.60	0.90	0.15	8.32				
	NMH 34 to NMH 35	1	11.00	0.90	0.15	1.49				
						43.72				
	Deduction for MH's	-11	2.18	0.90	0.24	-5.18				
						64.54	Cum	64.54	225.00	**14521.23**
3	Supplying S&S RCC SPUN / VIBRATED CAST PIPES (REINFORCED) pipes NP-3 Class conforming to IS:458-1988 with latest amendments using ordinary portland cement, for sanitary works and conveying to work site, rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes and specials including cost of specials, perfect linking of joints with jack to correct position including cost of jointing materials, i.e, rubber rings conforming to IS: 5382 for S&S RCC pipes, with all leads and lifts as directed and giving necessary hydraulic test as per ISS to the required pressure and commissioning etc. complete. (Contractor will make his own arrangements for procuring water for testing). Before the execution of the work, the contractor shall carry out the survey and will be paid extra for the same as per seperate item.:(SR:2017-18,P.158,SLNO.5.20CODE(T050B)									
	300MM DIA RCC LINE									
	NMH 1 toNMH 2	1	33.00			33.00				
	NMH 2 to NMH 3	1	33.10			33.10				
	NMH 3 to NMH 4	1	35.50			35.50				
	NMH 4 to NMH 5	1	30.80			30.80				
	NMH 5 to NMH 6	1	42.30			42.30				
	NMH 6 to NMH 7	1	44.30			44.30				
	NMH 8 to NMH 9	1	34.50			34.50				
	NMH 9 to NMH 10	1	23.20			23.20				
	NMH 10 to NMH 11	1	30.80			30.80				
	NMH 11 toNMH 12	1	29.80			29.80				
	NMH 12 to NMH 13	1	23.70			23.70				
	NMH 13 to NMH14	1	25.80			25.80				
	NMH 14 to NMH 15	1	27.20			27.20				
	NMH15 to NMH16	1	26.70			26.70				
	NMH 16 to NMH17	1	27.70			27.70				
	NMH17 to NMH18	1	28.00			28.00				
	NMH19 to NMH20	1	40.00			40.00				
	NMH20 to NMH21	1	28.20			28.20				
	NMH21 to NMH22	1	25.20			25.20				
	NMH22 to NMH23	1	29.70			29.70				
	EXMH23 toNMH 24	1	24.60			24.60				
	NMH 24 to NMH 25	1	28.50			28.50				
	NMH 25 to NMH 26	1	28.60			28.60				
	NMH 26 to NMH 27	1	28.90			28.90				
	NMH26 to NMH 28	1	29.90			29.90				
	NMH 28 to NMH 29	1	27.70			27.70				
	NMH 29 to NMH 30	1	30.10			30.10				
	NMH 30 to NMH 31	1	30.50			30.50				
	NMH 31 to NMH 32	1	26.60			26.60				
	NMH 32 to NMH 33	1	61.60			61.60				
	NMH 34 to NMH 35	1	11.00			11.00				

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Sl.No.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
	NMH 35 to NMH36	1	24.10			24.10				
	NMH 36 to NMH 37	1	21.90			21.90				
	NMH 37 to NMH 38	1	32.10			32.10				
	NMH38 to NMH39	1	25.30			25.30				
	NMH 39 to NMH40	1	30.70			30.70				
	NMH41 to NMH 42	1	20.00			20.00				
	NMH42 to NMH 43	1	27.40			27.40				
	NMH43 to NMH44	1	23.20			23.20				
	NMH44 to NMH45	1	23.60			23.60				
	NMH 45 toNMH 46	1	28.50			28.50				
	NMH 46 to NMH 47	1	26.10			26.10				
	NMH 47 to NMH 48	1	17.30			17.30				
			(1247.7m)			1247.70				
	Deduction for MH Qty	-43	1.20			-51.60				
						1196.10	Rmt	1196.10	1659.00	**1984329.90**
4	Supplying PVC ring tight pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for:									
	PVC pipes 110 mm outer dia., 6 kg/sqcm & class 3									
	200 HSC									
				200	5	1000.00	Rmt	1000	304.00	**304000.00**
5	Construction of RCC manhole chambers of 1:1.5:3 proportion or approved type pre-cast RCC manhole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using Ordinary Port Land Cement, using 1:1.5:3 proportion RCC with 20 mm and down graded jelly, well graded sand and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an offset in raft alround the chamber as in approved drawing, benching concrete with 1:6 slope towards the central drain finished smooth, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy duty) conforming to IS:12592 with latest amendments, on a bed of CC 1:2:4 supplying and fixing of minimum 3 mm thick ncapsulated plastic footsteps (as per IS 10910) on 12 mm dia. Grade Fe-415 steel bar (as per IS 1786) staggered at 300 mm apart as detailed in Technical specifications, including sand bedding wherever required, disposal of surplus earth, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc., complete including cost of reinforcement steel and fabrication charges and also cost and conveyance of all materials, labour with all lead and lifts. The Precast RCC manholes are for various diameters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.									

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Sl.No.	Particulars	No.	L	B	D	Unit	Quantity	Rate	Amount
	1.00 metre depth MH 1 TO MH48								
						Nos.	25	30960.00	**774000.00**
	MH No's	**Depth**		**Above 1.0 m**					
	1.30 metre depth NMH								
		3	3	9					
	1.40 metre depth								
		2	4	8					
	1.50 metre depth								
		12	5	60					
	1.60 metre depth								
		3	6	18					
	1.70 metre depth								
		3	7	21					
	1.80 metre depth								
		2	8	16					
				132.00					
	Above 1.0m depth MH interms of 0.1m								
	1.10 to 1.90 Mts.			132.00		No.		1641.30	**216651.60**
6	Providing and constructing "WIRE CUT BRICK MANHOLE C. using suplhate resistant cement, conical in shape at top, with C foundation using 40mm and down size graded metal of approv with an offset of 0.15M alround the chamber. Construct Brick 1:4, 340 mm thick, with wirecut bricks of approved quality, plas out side with CM 1:3, 12mm thick, except for the conical surfa where the plaster thickness shall be 20mm. Slope inside to be concrete towards central drain and finished smooth. Fixing of 1:2:4 with graded metal of 20mm and down size. Supplying an manhole frame and cover conforming to IS:12592 with latest CC 1:2:4. Supplying and fixing footsteps made of 12mm dia. s 415) with 3mm thick plastic encapsulation (IS-10910). The foo fixed 30cms apart and on CC block embeded to masonry wall works include excavation in all types of soils, watering, curing danger lighting, pouring tar over MH frame and cover, cost of strutting, de-watering, engraving manhole number with flow di inner conical surface etc. as per the rawing etc. as per techni specifications and for the following diameters and depth etc. f 18, P.168, SLNO. 101 CODET300)								
	1.00 metre depth MH 1 TO MH48					Nos.	8	18382.00	**147056.00**
	MH No's	**Depth**		**Above 1.0 m**					
	1.40 metre depth								
		1	4	4					
	1.50 metre depth								
		1	5	5					
	1.60 metre depth								

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SLNo.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
		1	6	6						
	1.70 metre depth									
		4	7	28						
	1.80 metre depth									
		1	8	8						
				51.00						
	Above 1.0m depth MH interms of 0.1m									
	1.10 to 1.90 Mts.			51.00		51.00	No.		1838.20	93748.20
	2.00 Mtrs Depth									
		12.00		12.00		12.00	No,		30795.00	369540.00
	MH No's	Depth		Above 1.0 m						
	2.10 metre depth									
		5	1	5						
	2.200 metre depth									
		1	2	2						
	2.40 metre depth									
		1	4	4						
	2.60 metre depth									
		1	6	6						
				17.00						
	Above 2.0m depth MH interms of 0.1m									
	2.10 to 2.6 Mts.			17.00		17.00	No.		1416.60	24082.20
7	Dismantling the damaged or collapsed manholes of 1.2M dia., conical in shape, and reconstructing the same for the same dimensions, with machine made wire cut brick in CM 1:4 with ordinary portland cement etc. as per design and specifications. The existing ring, cover and CC beeding to be used.**SR 2017 2018 P.No.180, Sl. No.118A T440A**									
	1.00 meter depth EXMH27,36,42						Nos.	3	12694.00	38082.00
8	Providing Bedding or Backfilling using approved stone dust / quarry dust of size not exceeding 5.6 mm for the pipe line trenches including watering and consolidation to 95% proctor density etc., complete with all lead and lifts as per specification and as directed by the engineer incharge, after obtaining the approval of the Chief Engineer by diamond rope cutting method.									
	Excavation Qty. Item 1,2A & 2B			1838.27						
	Pipe Deductions			-81.5301						
				1756.74			Cum	1756.74	1124.00	1974572.59
9	Disposal off the excess excavated earth of all types by vehicle including loading, unloading with all lead and lifts, labour, HOM of machineries etc. for:									
	1838.27									
	Total					1838.27	Cum	1838.27	243.00	446698.95
										6758998.93
	ABSTRACT									
1	**TOTAL ESTIMATED AMOUNT**									6758998.93

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Sl.No.	Particulars	No.	L	B	D	Qty	Unit	Quantity	Rate	Amount
2	TPI Charge 0.82%									55423.79
3	TENDER Premium and ecalation charge 5%									337949.95
4	ETP BWSSB 5%									337949.95
5	Advertisement Charges									7500.00
6	Miscellaneous and Rounding off									2177.39
								Grand Total	Rs.	7500000.00

AE/JE
BWSSB

AEE
BWSSB

EE
BWSSB

AE
BBMP

AEE
BBMP

EE
BBMP

Administrative Approval
Accorded For RS 75 w Inwithe wly
Head of A/C POSU1
CER NO :..79..... Dt:13.12.2021

TA

CE (YNK)

Technical Sanction
Accorded For RS 75 w Inwithe wly
Head of A/C POSU1
CER NO :..74..... Dt:13.12.2021

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